

AMENDMENTS

In the Claims

1. (Previously Presented) A method for updating microcode in an automated data storage library, comprising the steps of:
 - assigning a first Logical Unit Number (LUN) to a first device, wherein said first device is an Input/Output (I/O) device of said automated data storage library;
 - assigning a second LUN to a memory, wherein said memory is memory of said I/O device;
 - wherein said first LUN and said second LUN are separate, and wherein said first LUN processes I/O commands, and said second LUN processes microcode update commands;
 - said first device receiving a plurality of commands;
 - said first device obtaining a LUN address from each of said plurality of commands;
 - in response to said LUN address obtained from each of said plurality of commands being equal to said first LUN, processing each of said plurality of commands as input/output commands of said first device;
 - in response to said LUN address obtained from each of said plurality of commands being equal to said second LUN, directly overwriting said microcode in said memory using said LUN address assigned to said memory by processing each of said plurality of commands, thereby updating said stored microcode in said first device;
 - and,
 - in response to said first device receiving a prepare for microcode update command, placing said first device in an operational state to receive said update of said microcode.
2. (Cancelled)
3. (Cancelled)

4. (Previously Presented) The method of claim 1, wherein said placing said first device in an operational state to receive said update of said microcode further comprises:

not accepting any new commands for processing;
completing all current commands; and
placing movable components at a rest position.

5. (Previously Presented) The method of claim 1, wherein said processing each of said plurality of commands to update said microcode further comprises:

overwriting said memory associated with said first device with an updated microcode.

6. (Previously Presented) An automated data storage library for updating microcode, comprising:

a first device addressable by a first Logical Unit Number (LUN), wherein said first device is an Input/Output (I/O) device of said automated data storage library;
a memory addressable by a second LUN, wherein said memory is memory of said I/O device;

wherein said first LUN and said second LUN are separate, and said first LUN processes I/O commands, and said second LUN processes microcode update commands and wherein said first device receives a plurality of commands, obtains a LUN address from each of said plurality of commands;

in response to said LUN address obtained from each of said plurality of commands being equal to said first LUN, said first device processes each of said plurality of commands as input/output commands of said first device; and

in response to said LUN address obtained from each of said plurality of commands being equal to said second LUN, said first device:

directly overwrites said microcode in said memory using said LUN address assigned to said memory by processing each of said plurality of commands, and thereby updates said stored microcode in said first device.

7. (Original) The system of claim 6, further comprising:
a host, wherein said host sends microcode update commands to said first device.
8. (Original) The system of claim 6, further comprising:
a host; and
a device interface coupled to said host, wherein said device interface receives commands
from said host and transfers said commands to LUN addressable components.
9. (Original) The system of claim 6, wherein said memory is an Electrically
Erasable Programmable Read Only Memory.
10. (Original) The system of claim 6, wherein said memory is coupled to said first
device.
11. (Original) The system of claim 6, further comprising an accessor, wherein said
memory is coupled to said accessor.
12. (Original) The system of claim 6, further comprising:
a second device removably attached to said first device, wherein said memory is coupled
to said second device.
13. (Original) The system of claim 6, further comprising:
a controller for operating said first device, wherein said memory is coupled to said
controller.
14. (Cancelled)
15. (Previously Presented) An article of manufacture comprising a computer readable
medium tangibly embodying a program of machine-readable instructions executable by a digital
processing apparatus to perform method steps for updating microcode of a first device of an
automated data storage library assigned to a first Logical Unit Number (LUN), said first device
coupled to a memory assigned to a second LUN, said method comprising the steps of:

said first device receiving a plurality of commands, wherein said first device is an Input/Output (I/O) Device, said memory is memory of said I/O device, said first LUN and second LUN are separate, and wherein said first LUN processes I/O commands, and said second LUN processes microcode update commands;

in response to said LUN address obtained from each of said plurality of commands being equal to said first LUN, processing each of said plurality of commands as input/output commands of said first device;

in response to said LUN address obtained from each of said plurality of commands being equal to said second LUN, directly overwriting said microcode in said memory using said LUN address assigned to said memory by processing each of said plurality of commands, thereby updating said stored microcode in said first device;

and,

in response to said first device receiving a prepare for microcode update command, placing said first device in an operational state to receive said update of said microcode.

16. (Cancelled)

17. (Cancelled)

18 (Previously Presented) The article of manufacture of claim 15, wherein said wherein said placing said first device in an operational state to receive said update of said microcode further comprises:

not accepting any new commands for processing;

completing all current commands; and

placing movable components at a rest position.